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Patent Claims

the transmission method for optimizing properties and power loss of a high voltage part (HV), integrated in a subscriber line circuit for connecting a subscriber line (TL), within a digital telephone exchange, where, in the high voltage part, in the direction toward the subscriber line, not within which are situated telephone signals, frequency band \provided for speech, but also signals, which are situated in a frequency band above that provided for speech and can be transmitted at a high rate, are amplified and are supplied to the subscriber line, and where telephone signals, situated within the frequency band provided for speech, coming subscriber line and also data situated in a frequency hand above that provided for speech, are measured for the purposes of further processing,

characterized in that current sources (SQ) which are high voltage part in the and integrated quiescent current to the units\present in the high voltage part for the purpose of amplifying (V) or measuring (S) such telephone and/or data signals are set, no later than when such data signals are received in the high voltage part, to current values which are the current values for exclusive higher than transmission of telephone signals situated within the frequency band provided for speech, such that the data signals within the high voltage part are \transmitted with a high bandwidth largely without distortions, and the power loss of the high voltage part is optimized.

2. The method as claimed in claim 1, characterized in that, if neither data signals nor telephone signals are being transmitted in the high voltage part, such current sources supply each of the units present in the high voltage part only with current required for their quiescent operation.



Method for optimizing the transmission properties and power loss of a high voltage part integrated in a subscriber line circuit for connecting a subscriber line

During XDSL data transmission in a high voltage part (HV) integrated in a subscriber line circuit, the current sources (SQ)\ which are integrated in the high voltage part and $supp_{\mathbf{W}}$ current to the units present in the high voltage part for the purpose of amplifying (V) or measuring (S) telephonensignals and/or data signals, which are situated above the frequency band provided for speech, are set, no Nater than when such data signals are received in the high voltage part, to current values which are higher than the current values exclusive transmission **o**f telephone situated within the voice band \provided for speech, such that the data signals within the high voltage part are transmitted with a high bandwidth largely without distortions, and the power loss of the high voltage part is optimized.

Figure

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